OWNER'S MANUAL

RSC-1401C/H SERIES Laminators

Read all instructions carefully before use.

For any Customer Support needs please choose the Customer Support tab on www.royalsovereign.com

Royal Sovereign International Inc.

www.royalsovereign.com

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1. INTRODUCTION

Thank you for choosing a Royal Sovereign laminator. It has been designed and manufactured to provide years of continuous service. For complete operating and maintenance information please read this manual thoroughly. Upon receipt of your laminator, please inspect the box, the machine and all other contents for shipping damage. Damage should be brought to the immediate attention of the delivering carrier (See page 4 for list of shipment elements).

2. SAFETY PRECAUTIONS

Failure to comply with any of the following safety procedures could result in serious injury. Please read the instructions carefully and keep for future reference.

1. Only a licensed electrician should install wiring and outlet for the laminator.
2. Ensure the unit is plugged into a properly grounded outlet with the correct voltage.
3. Keep hands and clothing (i.e. Neckties) away from rollers. The rollers have pinch points that can trap body parts or clothing and cause serious injury.
4. Keep flammable and wet objects away from the machine.
5. Place machine on a level surface.
6. Avoid excessive sunlight, humidity and extreme temperatures.
7. Ensure the unit is turned off, cooled, and unplugged from the outlet prior to moving and/or repairing.
8. Keep out of reach of children.
9. Only Royal Sovereign authorized maintenance and service technicians should make repairs.
10. Do not attempt to laminate items that exceed total recommended material thickness for the unit
11. When cleaning the machine, don't use flammable sprays or materials.
12. Do not touch the rollers when they are hot or place foreign objects inside the machine.
13. Do not cover the surface of the machine until the machine has completely cooled.

3. INSTALLATION

Note: The laminator should be installed by a trained service technician.

The laminator comes fully assembled, except for the feed table and paper guide to avoid shipping damage. Upon arrival, thoroughly inspect the unit. It is imperative that any shipping damage is reported and a claim is filed with the delivering carrier immediately upon receipt.

The laminator should be located in an area with adequate work space for feeding graphics and lamination materials.

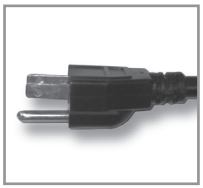
Avoid placing the laminator in a dusty area or near sources of extreme heat or cold.

Once the laminator is in place, lock the casters into position("ON" position). Always unlock the casters ("OFF" position) when moving to a different location.

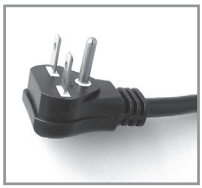
ELECTRICAL REQUIREMENTS

Royal Sovereign recommends that a licensed electrician ensures proper power installation to your laminator in accordance with electrical codes in your area.

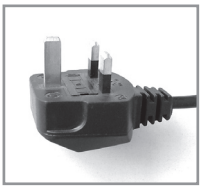
The laminator should have a dedicated power line.



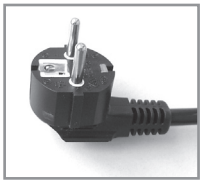
120V UL



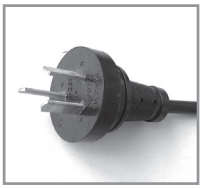
230V UL



240V UK



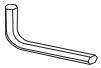
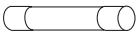
220V EU



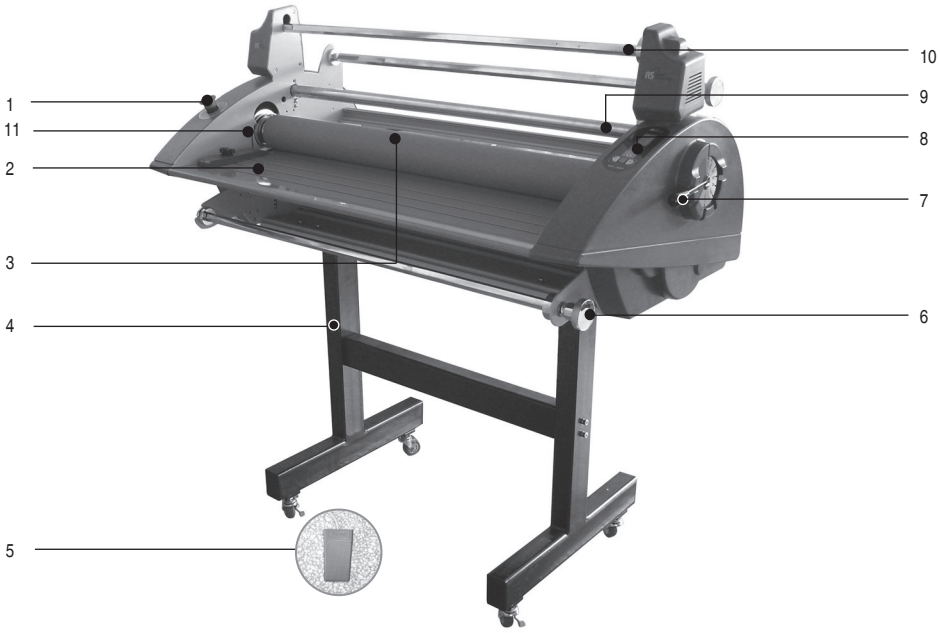
220V AU

4. INCLUDED WITH LAMINATOR

Thoroughly inspect the parts and the unit. It is imperative that any missing parts are reported and a claim is filed with the reseller immediately upon receipt of shipment.

Part Name	Quantity	Picture
Laminator	1	
Owner's Manual	1	
3″(76mm)	6	
L-wrench (2.5/6)	1 1/1	
Dust Cover	1	
Spare Motor Fuse - FUSE(50T) (6.3A)	1	
Spare Main Power Fuse - FUSE(65TS) (5A)	1	

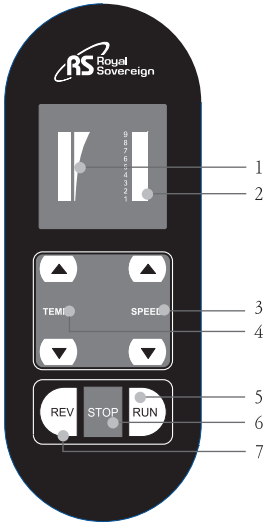
5. PRODUCT IDENTIFICATION



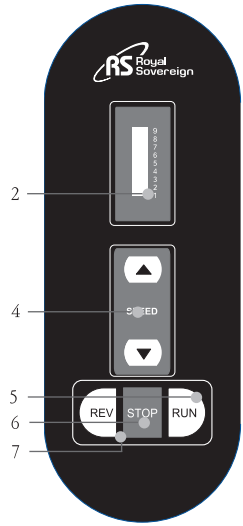
NO	PART NAME	
1	EMERGENCY SWITCH	O
2	FEED TABLE	O
3	MAIN ROLLER	O
4	ASSEMBLY STAND	O
5	FOOT PEDAL	O
6	TENSION CONTROL KNOBS	O
7	PRESSURE LEVER	O
8	CONTROL PANEL	O
9	UPPER IDLE BAR	O
10	RELEASE LINER TAKE UP	O
11	LASER SYSTEM FOR SAFETY	O

6. CONTROL PANEL

When the machine is initially turned on, the LED display window will show the speed and temperature set at 1.



RSC-H/LSH SERIES



RSC-C/LS SERIES

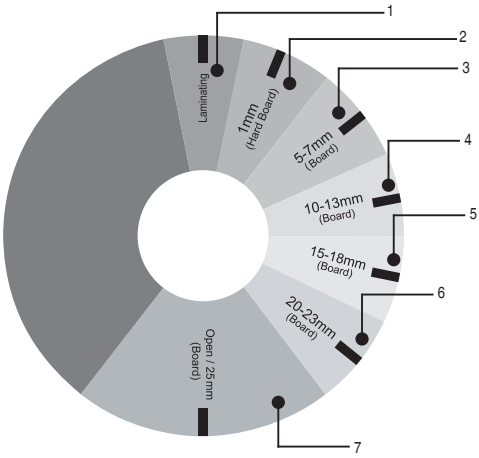
Control Buttons

1. **TEMPERATURE DISPLAY:** Display's current temperature.
2. **SPEED DISPLAY:** Display's current Speed.
3. **TEMPERATURE BUTTON :** To change the temperature (max. 122°F, 50°C) of the upper roller, press up or down arrow button.
4. **SPEED BUTTON:** Adjusting the speed of the rollers. To change the speed of the rollers, press the up or down arrow button.
5. **RUN:** To start the rollers.
6. **STOP:** To stop the rollers.
7. **REV:** To reverse the rollers, press and hold the REVERSE button.

7. ROLLER NIP SETTING

It is important to adjust the roller nip settings to the appropriate thickness of the board being used. Use the guide below to adjust to the correct position.

NO.	Inches	Metric (mm)
1	Lamination	Lamination
2	1/25″	1
3	3/6″~1/4″	5~7
4	3/8″~1/2″	10~13
5	3/5″~ 18/25″	15~18
6	4/5″~3/25″	20~23
7	1″	25



NOTE: When not laminating and the rollers are not moving, it is recommended the pressure lever be set to the OPEN position to prevent flat spots from forming in the rollers at the point where the upper and lower rollers make contact.

8. USING FOOT PEDAL AND REMOTE CONTROL

USING FOOT PEDAL

Whether the RUN button is set to the on or off position, roller operation may be controlled by using the foot pedal. If the rollers are not turning and the foot pedal is depressed one time, the rollers will begin turning. And if the rollers are turning, depressing the foot pedal one time will stop the rollers from turning.

9. USING CROSS CUTTER

The cross cutter is located on the rear exit table of the machine.

1. After lamination, move the cutter approximately to the center of the completed application at the desired point of detachment (Figure 1).

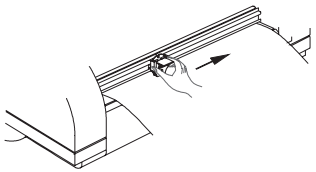


Figure 1

2. Grasp film with one hand, press the cutter downward into the application and slide it first to one end of the application, then to the other end to complete the cut (Figure 2 & 3).

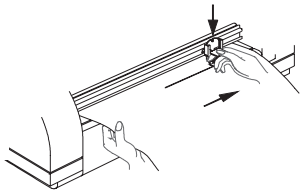


Figure 2

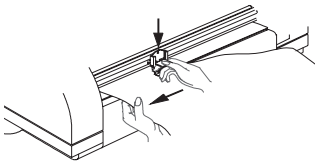


Figure 3

10. LOADING FILM

Royal Sovereign films are wound with the adhesive side facing the inside of the roll (adhesive in).

Loading films to upper and lower film shafts:
(See page 5 for assistance with parts identification.)

1. Adjust the auto grip to fit to the film and tighten the auto grip screw (Figure 1).

Figure 1

2. Remove the upper and lower film shafts from the machine and load the films (Center the upper and lower films on the shaft). Note the direction of the adhesives on the lower and upper films
(Figure 2).

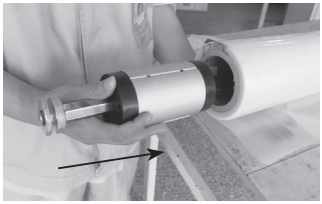
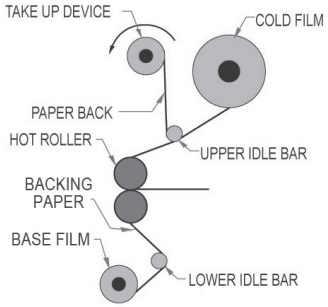


Figure 2

3. Load the upper and lower film shafts on the machine (Figure 3).

Figure 3

11. THREADING FILM



11.1. Decaling

1. Turn the power switch on ("I" position). The Power switch is located on the rear left side of the unit.

2. Complete the steps as in the "LOADING FILM" section (see page 10).

3. Set the top roller to the desired temperature (RSC-1401H)

4. Take off the Frame-Paper Guide and the Feed Table.

5. Pull the top film down over the Safety Cover to the bottom of the craft paper/mounting film.

6. Align and center the craft paper/mounting film to the top film and tighten the two lower core screws (Figure 1).

7. Thread the top film underneath the Upper Idle Bar.(Figure 2)

8. Tape the top film on to the Release Liner Take-Up.(Figure 2)

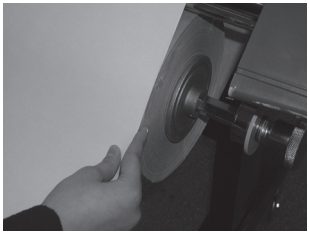


Figure 1

Figure 2

9. Cut and separate the release liner and the film. (Figure 3)

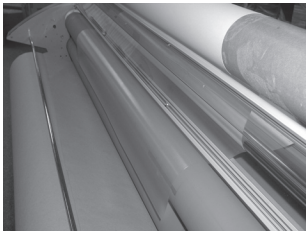


Figure 3

10. Thread the craft paper behind the Lower Idle Bar to the top film that is resting on the main roller (do not use the Lower Idle Bar for Mounting). (Figure 4)

Figure 4

11. Reinstall the Feed Table and the Frame-Paper Guide,and close the Safety Cover.

12. Adjust the nip setting to appropriate gap.

13. Insert and push the leader board until they reach the front nip point.

14. Push the Run button.

15. Push the leader board into the rollers. (Figure 5)

Figure 5

16. Adjust the top and bottom tension knob by rotating it clockwise or counterclockwise. Turn it until the top and bottom roll films have some resistance (The tension varies depending on the film thickness; the thicker the film the more tension is required). (Figure 6)

Figure 6

17. Press the Stop button when the leader board has completely exited from the rollers.
18. Use the Cross Cutter to cut the leader board from the web (see page 9).
19. Set the nip setting to the appropriate position for the Over-lamination / Decaling application.

11.2 Mounting

1. Lay the decaled image face down on a flat surface. Carefully peel back and put a crease along the edge of the release liner (Approximately 1 inch or 25mm, Figure 1).

Figure 1

2. With the image facing up, align the image onto the board. Press firmly from the center out (Figure 2).

Figure 2

3. Adjust the pressure lever to ensure the proper opening (Figure 3).

Figure 3

4. Flip the image over the upper roller and hold on to the release liner (Figure 4).

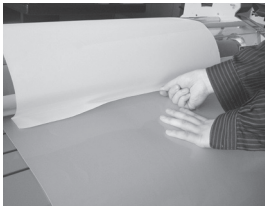


Figure 4

5. Press the foot pedal once, and then let it go while slowly pulling the release liner as the board enters the main roller nip (Figure 5).

   Press the foot pedal once again when the board has completely exited from the rear of the unit.
   Trim the board if necessary.

Figure 5

12. INSTALLATION OF FRONT FEEDER AND REAR REWINDER OPTIONS

NOTE: Below options are to be installed by an authorized RS reseller.

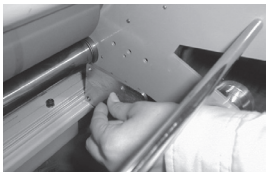


Figure 1

Installation of the Front Feeder Option (Includes 2 brackets, one spindle, and mounting hardware).

1. Install the Front Feeder to the inside of the front frames using four 1/4" (M6) hexagon bolts on each side (Figure 1).

Figure 2

Figure 3

Installing the Rear Rewinder Option (Includes motorized winder, bracket, one spindle, and mounting hardware).

1. Remove the left and right covers by using a screwdriver (four screws on each side cover) (Figure 2 & 3).

2. Remove the lever knob screw and lever (Figure 4).

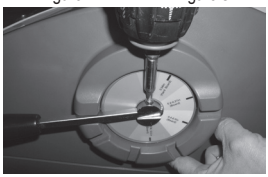


Figure 4

3. Remove the rear cover by removing all 12 screws (4 top, 4 bottom, and 2 on each side) (Figure 5 & 6).

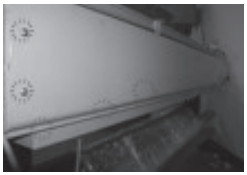


Figure 5

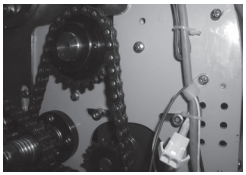


Figure 6

4. Disassemble the power switch bracket and place the left rewinder outside of the frame; fasten with round head 3/16"(M5) screws (included in the option kit). Then, reinstall the power switch bracket (Figure 7).
5. Install the right rewinder on the outside of the frame and connect the motor wire connector to the rear wire (Figure 8 & 9).
6. Reinstall the rear cover.
7. Reinstall the side covers.
8. Reinstall the lever knob and screw.

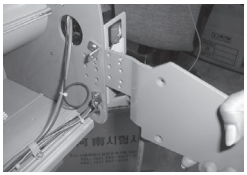


Figure 7

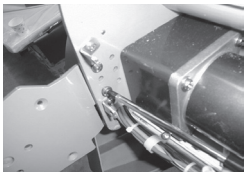


Figure 8

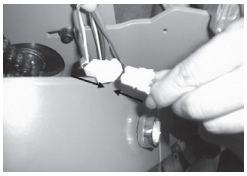


Figure 9

13. MAINTENANCE

Cleaning the Body of the laminator

1.To clean the machine body, dampen a cloth with water only and gently wipe the machine clean.

Removing Adhesive Build Up

1. Remove the film from the laminator.
2. Use a damp (water only) cloth and a rubber gum eraser to remove the adhesive on the Teflon (metal) and silicone rollers.

Note: Rub firmly but do not scrub the rollers vigorously as this may scratch the surface. Do not use sharp metal objects, steel wool, or abrasives, as these may also damage the rollers.

Lubrication

1. Drive chain and sprockets should be lubricated with either a light coat of gear lube or heavy grease (lithium grease) after 6 months or 1000 hours of operation, whichever comes first.

14. TROUBLESHOOTING

Symptom	Cause	Possible Solution
Machine will not turn on:	a. Power plug is not plugged in. b. Power switch is in "0" (Off) position. c. Tripped circuit breaker. d. Blown main power fuse.	a. Plug the power cord into appropriate outlet. b. Put the power switch to the "I" (On) position. c. Reset the circuit breaker. d. Replace the fuse.
There is power, but the rollers are not turning after the "RUN" button is pressed:	a. Emergency switch(es) is (are) engaged. b. Paper guide is not installed correctly. c. Blown motor fuse.	a. Disengage the emergency switch(es). b. Properly install the paper guide so that the micro switch is activated. d. Replace the motor fuse.
The unit is not heating up:	a. Did not raise the temperature.	a. Raise the temperature.
Curled lamination:	a. Upward curl. b. Downward curl.	a. Loosen the top roll film tension. b. Loosen the bottom roll film tension.

15. SPECIFICATIONS

DESCRIPTION	RSC-880LS/LSH		RSC-1120LS/LSH		RSC-1401C/H		RSC-1650LS/LSH	
Power supply	AC100,200 220~240 50/60Hz AC 120V 60Hz							
Power Consumption	100W	900W	100W	1100W	100W	1500W	100W	1600W
Roller Diameter	ø82		ø82		ø82		ø95	
Safety System	Laser System for Safety		Laser System for Safety		Laser System for Safety		Laser System for Safety	
Laminating Speed (max)	5m/min		5m/min		5m/min		5m/min	
Laminating Width	880mm		1120mm		1400mm		1650mm	
Laminating Films	50mic-500mic		50mic-500mic		50mic-500mic		50mic-500mic	
Foam Board	1mm-25mm		1mm-25mm		1mm-25mm		1mm-25mm	
Thickness of substrated (Paper)	80g/m²-350g/m²		80g/m²-350g/m²		80g/m²~350g/m²		80g/m²~350g/m²	
Speed Control	Key Pad		Key Pad		Key Pad		Key Pad	
Pressure Adjustment	Manuual		Manuual		Manuual		Manuual	
Max. temperature	—	50°C(122°F)	—	50°C(122°F)	—	50°C(122°F)	—	50°C(122°F)
Ready time	—	10min	—	10min	—	10min	—	10min
Take up device	chain link to main motor		chain link to main motor		chain link to main motor		chain link to main motor	
Film Core	2"&3" Auto Grip		2"&3" Auto Grip		3" Auto Grip		3" Auto Grip	
Take of Main Motor	DC Motor		DC Motor		DC Motor		DC Motor	
Cross Cutter	Yes		Yes		Yes		Yes	
Remote Control Switch	No		No		No		No	
Foot S / W	Yes		Yes		Yes		Yes	
Dimensions (WxLxH)	1190 x 650 x 1120		1430 x 650 x 1120		1710 x 650 x 1120		1960 x 650 x 1120	

16. WARRANTY

Royal Sovereign International warrants the equipment sold is free from defects in material and workmanship for a period of One (1) year for Parts and Labor from the date of installation, excluding lamination rollers which are warranted for Six (6) months. This warranty is extended only to the original purchaser. This warranty is the only warranty made by Royal Sovereign International and cannot be modified or amended. Royal Sovereign's sole and exclusive liability and the customer's sole and exclusive remedy under this warranty shall be, at Royal Sovereign's option, to repair or replace any such defective part or product. These remedies are only available if Royal Sovereign's examination of the product discloses to Royal Sovereign's satisfaction that such defects actually exist and were not caused by misuse, neglect, attempt to repair, unauthorized alternation or modification, incorrect line voltage, fire, accident, flood or other hazard.

All warranty claims must be filed through the authorized Royal Sovereign dealer or reseller through which the equipment was originally purchased. Model, serial number and date of delivery are required for all claims.

The warranty made herein is in lieu of all other warranties, expressed or implied, including any warranty or merchantability or fitness for a particular purpose. Royal Sovereign will not be liable for personal damage or personal injury (unless primarily caused by its negligence), loss of profit, or other incidental or consequential damages arising out of the use or inability to use this equipment.

LIMITED WARRANTY

This warranty specifically does not cover damage to laminating rollers caused by knives, razor blades, or any sharp objects or abrasives, or failure caused by adhesives, or damage caused by lifting, tilting or improper use of the machine. Warranty repair or replacement by Royal Sovereign or its authorized Reseller(s) does not extend the warranty beyond the initial one year period from the date of installation. Unauthorized customer alterations will void this warranty.

CORPORATE HEADQUARTERS
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